PITTASOFT

Pitta 300 Series IP Network Camera

Headquarters
#1113 Newticastle 429-1 Gasan-Dong, Geumcheon-Gu, Seoul, Korea
Tel : 82-2-2626-8800 AS : 82-2-2626-8804 Fax : 82-2-2626-8805
Homepage : www.pittasoft.com Email : product@pittasoft.com



User's Manual

Pitta 300 Series IP Network Camera

Pitta300/300R
Pitta300D/300DR

PITTASOFT

User's Manual

Pitta 300 Series IP Network Camera

Pitta300/300R

Pitta300D/300DR

PITTASOFT

With H.264 compression's clear digital images transmitted over the internet, real-time monitoring is possible anywhere with an internet connection. Easy remote monitoring control functions and the use of existing networks minimize installation costs.

Preface

Thanks for purchasing our Pitta 300 series IP Network Camera. This is a user manual for H.264 IP Network Camera and the product mentioned here designates the H.264 IP Network Camera. Please go through the manual before installation and use of the camera. This manual along with the software and hardware explained here is protected by copyright law.

Product Warranty and Limitations

The warranty period is 1 year after the date of purchase, but the warranty does not extend to cover accidents, negligence, abuse, or wrongful use for the whole or any part of the product. Additionally, the manufacturer does not provide warranty for any additional parts or affiliations.
The warranty does not extend to malfunction in these areas.

- Malfunction due to user's negligence
- Dismantlement or replacement by the user
- Connection to alternate power source
- Malfunction due to natural disasters (fire, flood, tsunami, etc.)
- Replacement due to wear and tear
- Instability of network

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
To prevent electric shock and risk of fire hazards:

Do NOT use power sources other than that specified.
Do NOT expose this appliance to rain or moisture.

The Pitta 300 series are high-tech IP Network Cameras that use H.264 codec technology to achieve high compression rates and clear picture quality by allowing for high frame rates to be transmitted through the network. By using the network, remote connection, monitoring, and control are possible from any location for simple use. The Pitta 300 series IP Network Camera guarantees performance and safety while offering various solutions through internet integration.

Features

High quality H.264 video
H.264 enables excellent image quality at significantly reduced network bandwidth and storage.

Changeable lens
User can easily replace other lens provided by Pittasoft to match the required viewing angle.

Support WDR (Wide Dynamic Range)
Built-in progressive CMOS image sensor and support better image in backlight environment than normal sensor. (Pitta 300R/300DR supports only)

Motion Detection
Intelligent Motion Detection analyzes for any motion in the scene. The reliable functionality is built into the camera and client software. Using the client software, user can set up motion detection to trigger video recording and e-mail alerts. Particular area in the scene could be included or excluded for the motion detection.

User-friendly configuration of camera
Well designed easy to use and installation, web based client has a user-friendly configuration for normal and advanced users. A normal user can make use of basic settings even without detailed knowledge of camera. Advanced settings allow user to change video quality, network, security and system related parameters.

Auto correction of lens distortion
Pitta 300 series client software automatically correct distorted images and can deliver near perfect images.

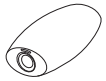
Compact size & ultra-light weight
Pitta 300 series are compact design and require minimum space for the installation and reduced weight allows flexible mounting.

Table of Contents

Components 5
Section names 6
Camera installation 7
Software installation 8
Network configuration 10
How to use Pitta IP Utility 10
How to change IP Address 11
How to use Pitta WebView 13
Login 13
Live View 14
Setup 15
[Basic setup] 15
[Advanced setup] 16
A. Users 16
B. Network Settings 16
i. IP and Ports 16
ii. Dynamic DNS Setting 17
C. Video & Image Configuration 18
D. Sensor 19
E. Event Configuration 20
i. Motion Detection 20
ii. Event Upload 21
F. System Operation 22
i. Date & Time 22
ii. LED Settings 22
iii. Server Maintenance 23
[About] 24
Help 24
Logout 24
How to use Pitta View 25
Pitta View strat 25
Live View mode 26
[Camera management window] 26
A. Camera registration 26
B. Camera search 28
C. Cancellation of camera connection 28
D. Deleting Camera 28
E. Camera information 28
F. The state of camera list 29
G. Camera selection 29
[Live View] 30
[Layout] 30
[Digital Zoom function] 30
[Mode conversion] 31
[Storage information] 31
[Quick button collection] 31
Setting mode 32
[Setting mode window] 32
[Storage & additional functions setting] 33
A. Setting recording storage 33
B. Setting alarm 33
C. Setting log items 34
D. Misc. 34
[Recording scheduler] 35
A. Setting schedule the recording 35
B. Setting motion recording 36
Playback mode 37
[Playback mode window] 37
[Recorded data map types] 38
[How to set playback] 38
Log view mode 39
[Log view mode window] 39
[How to see log view] 39
Logo 39
Appendix 1 - DDNS & Router Port Forwarding 40
Appendix 2 - Troubleshooting 41
Appendix 3 - Pitta 300 Series Specification 42
Appendix 4 - Pitta WebView Specification 43
Appendix 5 - Pitta View Specification 44
Appendix 6 - Dimension 45

Components

Pitta 300/300R Components



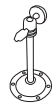
Pitta 300/Pitta 300R



Installation CD
(Pitta View, IP Utility)



Power adaptor



Stand



Screw(6pieces)

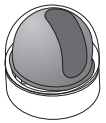


LAN cable (Cross cable)



User's manual

Pitta 300D/300DR Components



Pitta 300D/300DR



Installation CD
(Pitta View, IP Utility)



Power adaptor



Screw(2pieces)



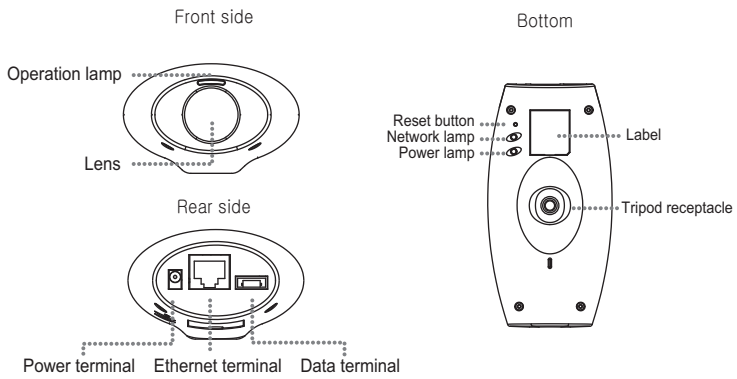
LAN cable (Cross cable)



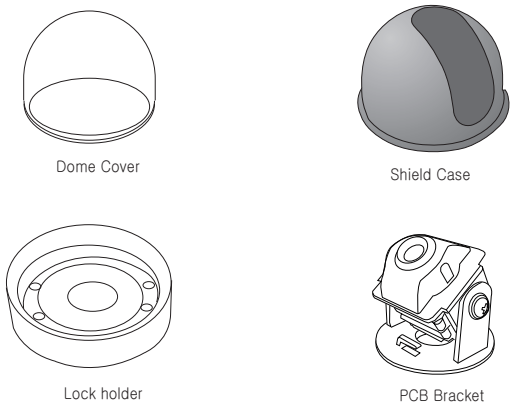
User's manual

Section names

Pitta 300/300R Section names



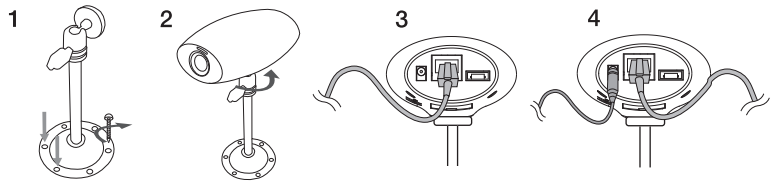
Pitta 300D/300DR Section names



Camera installation

Pitta 300 or Pitta 300R installation

1. Place a camera stand at the intended place.
2. Connect the camera to the camera stand.
3. Connect to the network using the LAN cable.
4. Connect the power adaptor to the camera.



Pitta 300D or Pitta 300DR installation

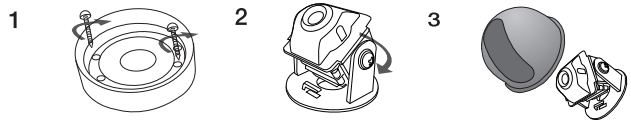
How to separate the hardware

1. Separate the dome cover by turning it counterclockwise.
2. Separate the shield case by pulling from the lock holder.



How to install the hardware

1. Place the lock holder on the installation surface and fix it with the screws.
2. Adjust the vertical angle of the lens and fix it with the screws then secure the shield case.
3. Secure the dome cover by turning it clockwise.

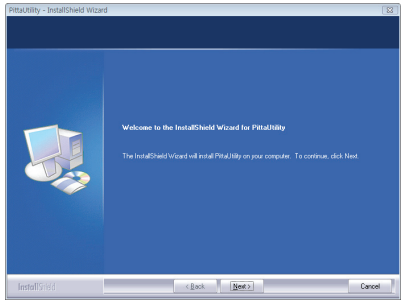


- The included cable is a cross cable which is used for a direct connection between the PC and the Camera only. When connecting them using other device such as a switch hub or router, a direct LAN cable needs to be used.

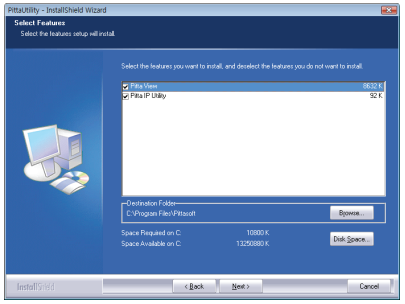
Pitta Utility (Installation tool) Installation

1. Insert the installation CD into the CD drive.

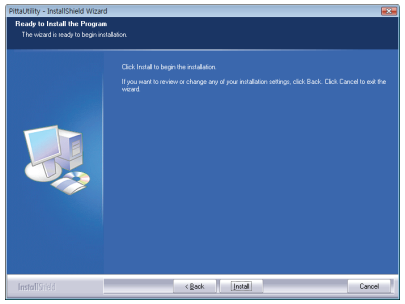
2. Click ‘Next’ button.



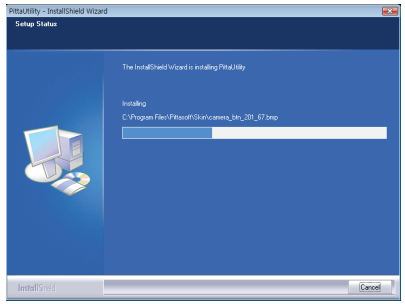
3. Select the options and folders then click ‘Next’ button.



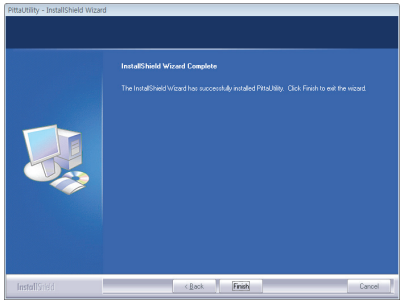
4. Click ‘install’ button.



5. Installation will start



6. Click ‘Finish’ button when the installation is completed.



7. “Pitta View” and “Pitta IP Utility” icons will be created on the desktop and in all program files after installation completes.

- Pitta View starts automatically when computer is restarted. If reinstallation is needed, current software has to be uninstalled. To uninstall the software, click on uninstall button in;
  Start → All programs → Pittasoft → Uninstall

- *If you install many cameras at once, be sure that you need to assign the IP address for each cameras using IP Utility.*

- Use Pitta IP Utility to change or verify the IP address of the camera.
- Factory default setting is the DHCP mode : IP address will be automatically assigned.
- Pitta 300 series software applications work with Windows XP SP2 and Windows Vista on Internet Explorer 5.0 or later.

How to use Pitta IP Utility

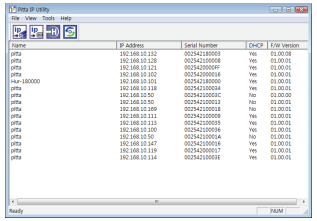
■ This application is used for searching, changing and verifying the IP address of the camera.

Use this to change the IP address of the camera in the list.

Use this to change the IP address of the camera using the camera's serial number

Use this to open camera homepage (Pitta WebView) of the selected camera

Use this to refresh the list of cameras connected to the network



<The list of the cameras connected to the subnet will be displayed.>

■ Several settings can also be accomplished by right clicking the mouse button and then selecting corresponding option.

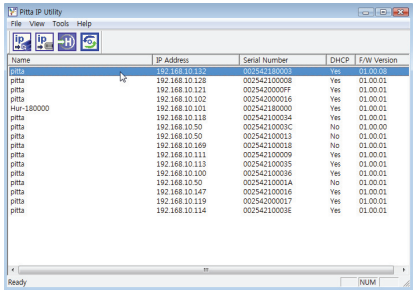
- This application can be used if the camera is physically connected in the same Subnet only. Otherwise, access the camera using Pitta WebView by directly connecting the camera to the PC using a cross cable and then change the IP address in the Network Settings. (See page 16 for more information)

- *If you use Pitta IP Utility with cross cable connection, you must assign the static IP. Please do not use DHCP option with cross cable.*

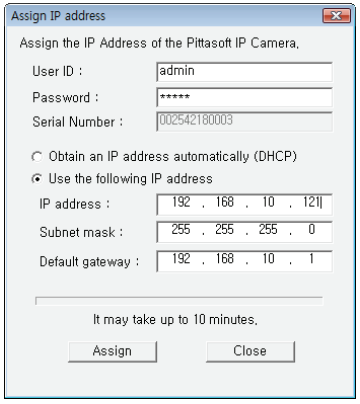
How to change IP address

■ To change the IP address, follow below procedure.

1. Start Pitta IP Utility
2. Select the camera whose IP address needs to be changed.
3. Click button.
4. "Assign IP address", pop-up window appears.
   a. Obtain an IP address automatically (DHCP) : Select the DHCP option for assigning the IP address automatically and click Assign button.
   b. Enter desired IP address to assign static IP address and click Assign button.
5. Press button to refresh the camera list.



<Select the camera to assign the IP address>

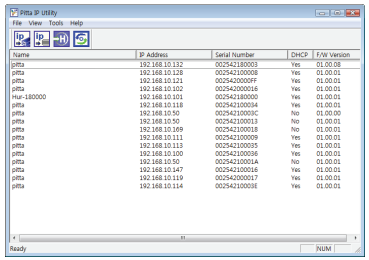


<Assign IP address pop-up window>

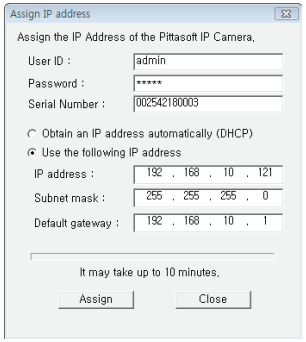
- *Default initial values of administrator's ID and Password are **admin/admin**.*

■ Procedures to change the IP address using serial number of the camera.
(Serial number can be found at the bottom of the camera.)

1. Start IP Utility
2. Click  button.
3. “Assign IP address” pop-up window appears.
   a. Enter the S/N of the camera
   b. Obtain an IP address automatically (DHCP) : Select the DHCP option for assigning the IP address automatically and click Assign button.
   c. Use the following IP address : Enter desired IP address to assign static IP address and click Assign button
4. Press  button to refresh the camera list.



<Start IP Utility>

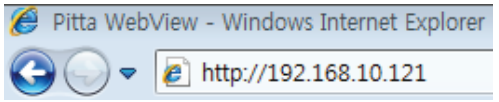


<Assign IP address pop-up window>

- IP setting using DHCP could take up to maximum 10 minutes.
- Network setting can be modified later using Pitta WebView. (See page 16 for more information)

Login

■ To open Login page, enter IP address in the address bar of your web browser and press Enter.



<When Camera’s IP address is 192.168.10.121>

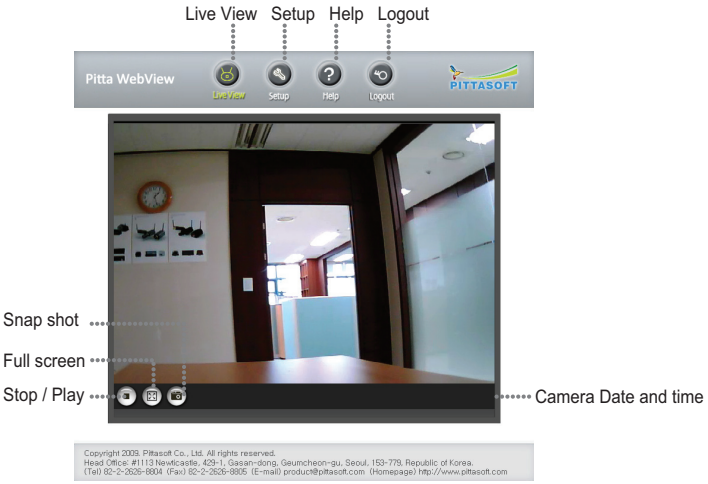
■ Enter user ID and Password, and then press Login button.



<Login page>

- Default initial values of administrator’s ID and Password are **admin/admin**. If you have accessed by administrator account, you may change the password of administrator to ensure the security of the system. In total, six non-administrator user’s can be configured by the administrator. Non-administrator user’s can access only Live View page.
  In case of login by Guest account, enter the assigned ID and Password and move to Live View page. However, in this case, the access by the Guest should be approved by the administrator. (See page 16 for more information.)

Live View



<Live View>

: Click button then the display of image is paused.
Click button then the screen continues displaying real-time view.

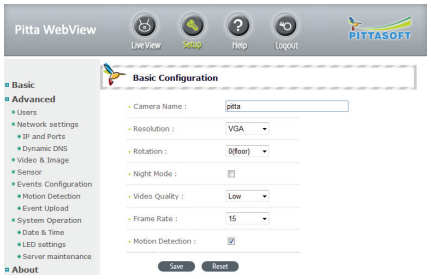
: Displays on the full screen. If you press the button again, the display returns to the original screen mode.

: You can save captured still images to the desired folder as bmp or jpeg file format.

Camera Date and time : Displays the time you set on the camera (Please see page 22 for more information).

- If you login to Live View at first time, a yellow bar will appear at the top of the screen. Please click on the yellow bar and continue to install the 'PTAMME_X ActiveX Control Module'.

Setup



<Basic setup>

[Basic setup]

- You can setup basic functions of the camera.

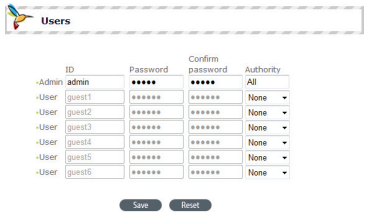
Camera Name	For assigning a name to the camera. Possible to use up to 64 letters.
Resolution	Use this to set the size of picture. VGA(640x480 pixel), CIF(352x288 pixel), QVGA(320x240 pixel), QCIF(176x144 pixel)
Rotation	Use this to rotate the display by 180 degrees.
Night Mode	Use this to get the better video quality in dark places.
Video Quality	Use this to choose video display quality. Highest(3Mbps), High(2Mbps), Normal(1Mbps), Low(500Kbps), Lowest(300Kbps)
Frame Rate	Use this to set the number of frames to be transmitted from the camera per second. 10 fps, 15 fps, 20 fps, 25 fps, 30 fps
Motion Detection	Enable the Motion Detection (Default is enabled)

- Use Reset button to roll back to the previous settings. If saved, cannot be rolled back to previous setting.

[Advanced setup]

A. Users

- Change Admin's ID and Password
- Change User ID, Password and authority.



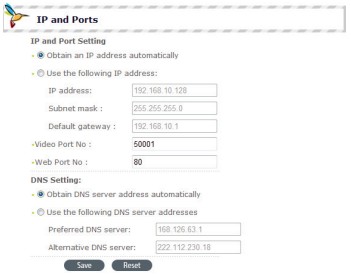
- You can use up to 4~32 (A-Z, a-z, 0-9,. _ possible) and 4~10 (possible to use all characters) to make ID and Password, respectively.

B. Network Settings

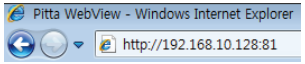
i. IP and Ports

IP and Port Setting

- Obtain an IP address automatically :
  Assigns the IP address of the camera automatically.
- Use the following IP address :
  Use this to assign the IP address of the camera manually.



- If the video is not visible when connected as non-admin user, refresh the page using refresh button of the browser.
- If the Web Port is changed other than 80, provide port number in the URL as follows;



<When Web Port is 81>

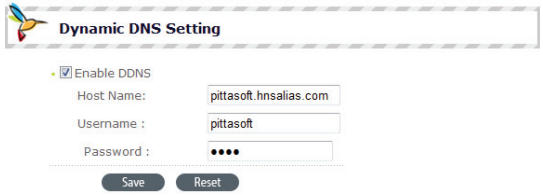
DNS Setting

- Obtain DNS server address automatically :
  Specifies that network address for DNS servers are automatically obtained from the network. If you select this option, the DHCP server provides this information.

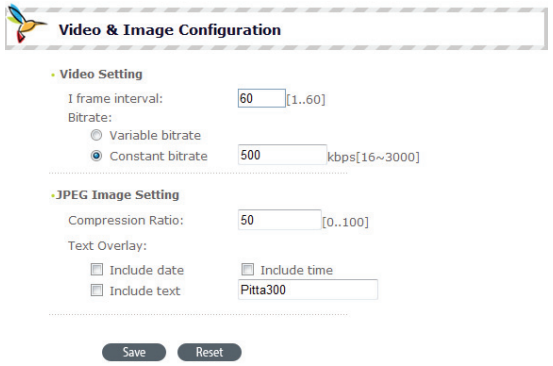
- Use the following DNS server address :
  Specifies that network addresses for DNS servers used by the camera are manually specified. If you select this option, you must type the IP addressed for your DNS servers in Preferred DNS server and Alternate DNS server. If you are not sure which IP addresses to use, check with your network administrator or Internet service provider.

ii. Dynamic DNS Setting

- Enable DDNS : Activates DDNS. For the Dynamic DNS service, Pitta 300 series support DynDNS (www.dyndns.com). (See page 40 for more information)



C. Video & Image Configuration



Video Setting

I frame interval :

Use this to set I frame(Key frame) interval. If set lower value, quality will be better but, at higher bandwidth requirement. (1~60)

Bitrate Setting

- Variable bitrate : Bit rate is adjusted automatically according to the variation in the video images.
- Constant bitrate : Bit rate is fixed regardless of the variation in the video images.
  (Minimum : 16 kbps, Maximum : 3000 kbps)

JPEG Image Setting

Compression Ratio :

Use this to set the compression ratio of images to be uploaded to the FTP server or attached to the email. The size of the image becomes smaller as the set value becomes greater.

Text Overlay Settings :

Use this to insert date, time and message to the image to be uploaded to the FTP server or attached to the email. Supports up to 20 letters.

D. Sensor

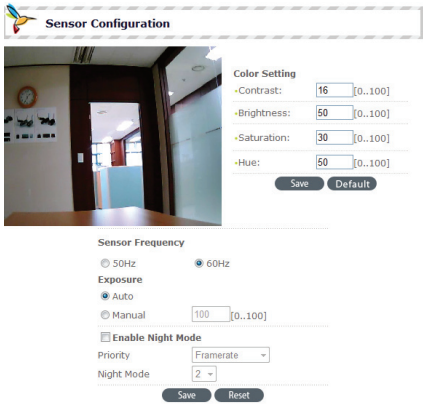
Color Setting

Contrast : Use this to adjust contrast.

Brightness : Use this to adjust brightness.

Saturation : Use this to adjust saturation.

Hue : Use this to adjust hue.



- Press ‘Default’ button to roll back to initial settings.

Sensor Frequency

Select one of the settings based on power frequency for proper sensor operation.

Exposure

Use this to adjust exposure. If the value is higher, the image will be brighter.

Auto : Automatically adjusts exposure.

Manual : Exposure is fixed.

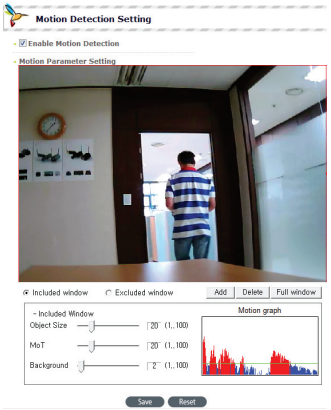
Enable Night Mode

Enable Night Mode : Allows brightening video images when shooting in dark places.

- Priority : Adjusts video images by giving priority to either frame rate or image quality.
- Night Mode : Images become brighter as the value of this mode becomes greater.

E. Events Configuration

i. Motion Detection



Enable Motion Detection

- Activates the motion detection function.

Motion Parameter Setting

- Upon setting a motion detection area, you may set at the most 4 different windows including both Included and Excluded windows.

  Included window : Allows detecting any motion within the selected window.

  Excluded window : Any motion in the Excluded window will be ignored.

  Add : Use this to add a detection window.

  Delete : Use this to remove a detection window.

  Full window : Allows detecting motions in the entire area.

  Object Size : Use this to set the sensitivity level for the size of objects in detecting their movement. As the set value becomes larger, the bigger object's motion is detected.

  MoT (Motion Threshold) : If larger value is set, then bigger motion will be detected.

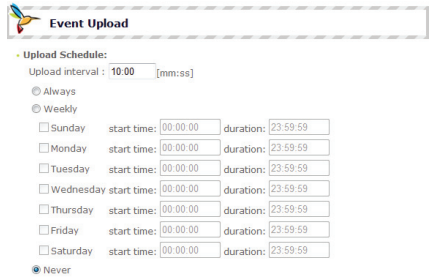
  Background : Sets the time to update background. A larger value is set then the longer duration of movement is detected and periodic movement is recognized as a background.

- "Enable Motion Detection" in Event Configuration needs to be activated.

ii. Event Upload

Upload Schedule

- This allows to set up notification to user for motion detection event via email or ftp or both. The image at the time of motion detection is captured and sent to user.



Upload interval : Use this to adjust the time interval between two consecutive image transmissions when motion is detected.

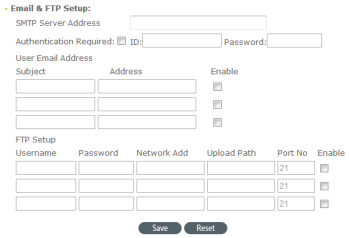
- Be cautious that if the time interval is set to too short, video images may be broken because the camera is overloaded or the images may be considered as spam mails because images are too often transmitted.

Always : Allows transmitting images according to the Upload interval value upon detecting motion.

Weekly : Allows transmitting images at the time set according to the Upload interval value upon detecting motion.

Never : Stops transmitting images.

Email & FTP Setup



SMTP Server Address : Enter your SMTP server host name or IP address.

Authentication Required : If your mail server requires authentication, check the box for "Authentication Required" and then enter the User Name and Password in the respective fields.

User Email Address : You can enter the subject and e-mail address.

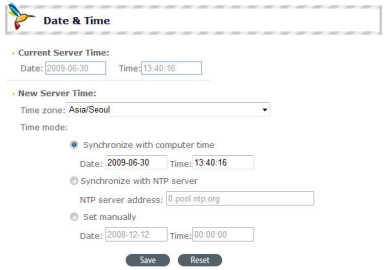
FTP Setup : You may enter FTP information to which images to be transmitted.

F. System Operation

i. Date & Time

Current Server Time

Date, Time : Displays current camera time.



New Server Time

Time Zone : Select the region where the camera is installed.
(Ex. Region - Seoul, Time zone - EMT +09:00)

Time Mode

Synchronize with computer time : Use this to synchronize camera time with user's PC time.

Synchronize with NTP server : Use this to synchronize camera time with NTP server time.

Set manually : Use this to set the time in manually.

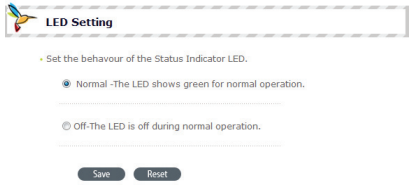
- Standard Date and Time format is 2009-02-22 09:00:00 (YYYY-MM-DD HH:MM:SS)

ii. LED Setting

Set the behaviour of the Status Indicator LED

Normal : Allows turning on the LED lamp on the front side of the camera.

Off : Allows turning off the LED lamp on the front side of the camera.

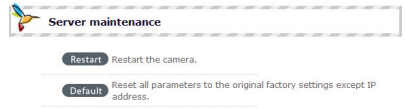


- Red – Starting, Orange – Booting, Green – Operating, Red flashing – Firmware upgrade

iii. Sever Maintenance

Restart :

Use this to re-start the camera. Once the camera is restarted, you have to login to the camera again.



Default :

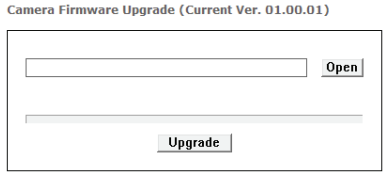
Use this to re-start the camera after returning all the settings except IP address to the initial settings at the time of purchase. Once the camera is restarted, you have to login to the camera again.

- If you press the reset button for 3 seconds at the bottom of the camera, then all the settings will change to initial settings including IP address.

Camera Firmware Upgrade

How to upgrade the camera frimware

1. Download updated firmware file from support menu in Pittasoft homepage.
2. Click 'Open' button and then select the updated firmware file
3. Click 'Upgrade' button.
4. Upgrade will run automatically when the transmission is completed. Red LED will be flashing on the front of the camera during upgrade.



- When you are accessing this page for the first time, a yellow bar will appear at the top of the screen. Click on the yellow bar to continue to install the "FWUpgradeX Module".
- The upgrade time takes up to 10 minutes. After firmware is upgraded, all the settings will be changed to initial setting including IP address. Camera restarts automatically after upgrade you need to login again to access the camera. Use IP Utility for network settings and use Pitta WebView to change date and time after reboot.

- *You must not turn off the camera during upgrade. The camera will automatically restart when upgrade is completed.*

[About]

■ This page contains current Pitta WebView version, firmware version and the serial number.



Help

You can use this to get help and tips.

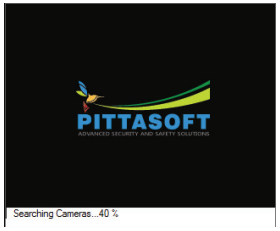
Press the Help button on the setup page to get help and tips for the current page.

Logout

You can use this to logout.

Pitta View start

■ This is an integrated surveillance program which allows monitoring, recording or playback by connecting up to 16 cameras simultaneously. You can run Pitta View using the shortcut icon on the desktop or Pitta View item on program menu.



<Loading Screen>

Initial screen start (Live View mode)



■ Upon loading, Pitta View searches all the cameras connected in the subnet automatically. The initial screen is activated as Live View mode.

● You may add those cameras that are not connected to the local network manually.
(See page 27 for more information)

Live View mode

[Camera management window]

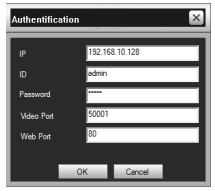
A. Camera registration

In case of registering an automatically found camera. (Automatic registration)

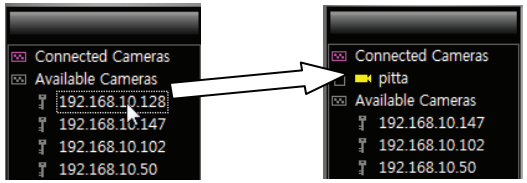
1. The authentication window appears when double-clicking the camera address in the list of Available Cameras or dragging the camera address into Connected Camera list or clicking + button after selecting the camera address.



2. Enter ID, Password, Video Port and Web Port. The default values of Video Port and Web Port are 50001 and 80, respectively.



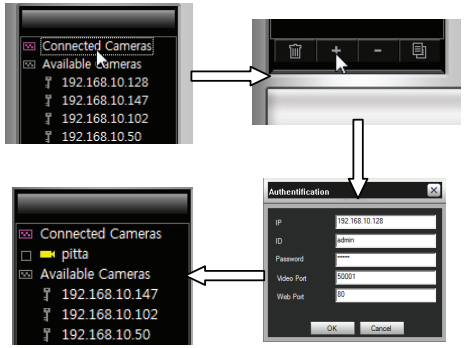
3. Once the authentication of the selected camera is completed, it moves to the list of Connected Cameras.



- "Available Cameras" displays only the IP addresses and "Connected Cameras" displays camera names. To see the more information, click on camera name in the list of "Connected Cameras".

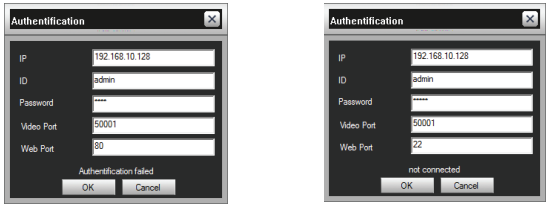
In case of manually registering cameras that are connected, but not in Available Cameras list. (Manual registration)

1. The authentication window appears when clicking + button after selecting Connected Cameras.
2. Enter IP, Password, Video Port and Web Port. The default values of Video Port and Web Port are 50001 and 80, respectively.
3. Once the authentication is completed, it appears in the list of Connected Cameras.



- You may manually register a camera which has been registered in DDNS.

In case of authentication failure



<ID or Password authentication failure > <Video Port or Web Port authentication failure >

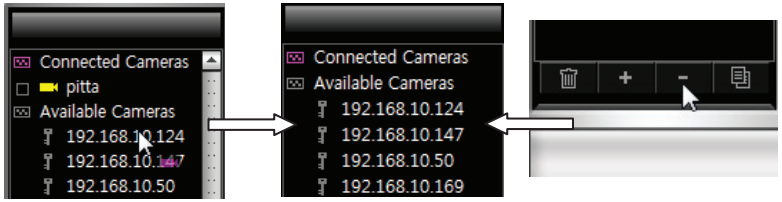
- In case of ID or Password authentication failure, a message of Authentication failed appears, while a message of Not connected appears when authentication is failed due to issues related to Video Port or Web Port.

B. Camera search

- You can re-search cameras connected to the local network using button. The information (IP address) of the found cameras is updated in the list of Available Cameras.



C.Cancellation of camera connection



- Drag and drop the camera to be disconnected into the list of Available Cameras or click - button after selecting the camera from the Connected Cameras list.

D. Deleting camera

- A camera is removed from all lists by clicking button after selecting it.
- You can delete a camera from the Available Cameras by clicking - button.

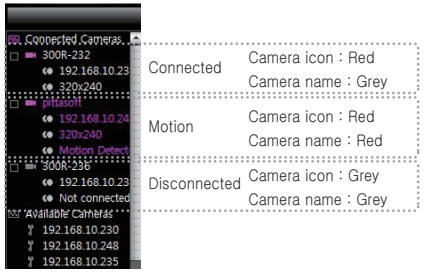
E. Camera information



- Information on the camera (such as camera name, IP address, model name, serial number) appears by clicking button after selecting the camera.

F. The state of camera list

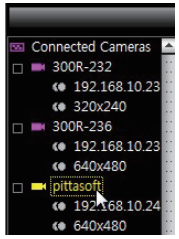
- The registered cameras are displayed by their names.



- If you click the box in front of a camera icon or double click on a camera name, detailed information of the camera (such as IP address, resolution, motion detection status) appears or disappears if previously displaying the information. When motion is detected, the color of letter is changed to red.

G. Camera selection

- You can select a camera by clicking the camera from the management list or the image captured by the camera from the Live View screen. The icon's color of the camera you selected in the list and the outline of the camera screen are changed to yellow.





[Live View]

- If you drag and drop a camera from the list of Connected Cameras into Live View after selecting it, the video image of the selected camera appears. The camera name is displayed on the top left of image, while recording or event conditions are shown on the top right of the image. You can move the image to a desired location on the split screen of Live View by selecting and dragging the image.



Normal recording | Motion recording | Motion detecting

[Layout]

- 8 different split screen modes are available.



1X1 2X2 3X3 4X4 1P7 1P12 Full screen View conversion for 5 seconds.

- You can change a View conversion mode to the next split screen mode using left and right arrow keys
- If there is no camera in the next page, View conversion is not effective.

[Digital zoom function]

- The image can be reduced or enlarged by 0.5 times (min.) to 2.0 times (max.) using mouse scroll button or up and down arrow keys  1X1 split screen mode.

[Mode conversion]



Live View: Use this to move to Live View mode.

Settings: Use this to move to settings

Playback: Use this to move to playback mode

Camera search: Use this to re-search the cameras connected to the local network.

Log view: Use this to display log view search screen.

[Storage information]

- Recording storage: Displays total data size recorded up to now.



[Quick button collection]



Pause: Use this to temporarily pause the image captured by a selected camera.



Capture: Use this to save a still image captured by a selected camera to a desired folder as bmp or jpeg file format.



Compulsory recording: Use this to compulsorily record the images captured by all cameras (Storage for recording should be first set before using this function.)

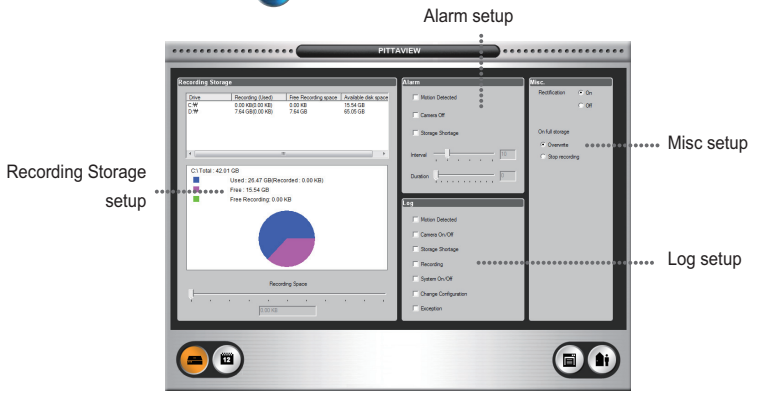


Minimizing: Use this to minimize Pitta View screen.

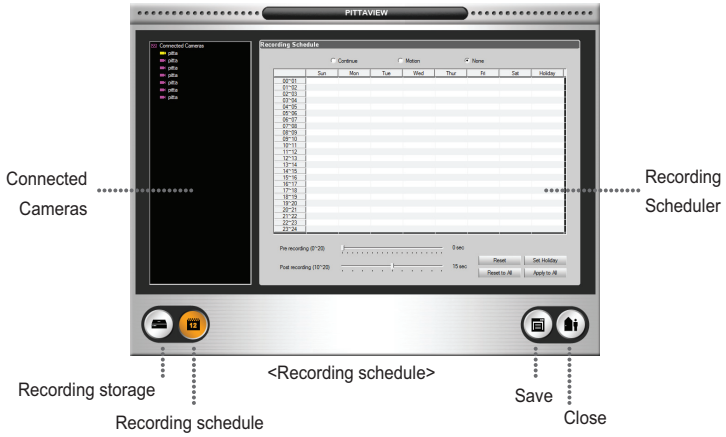
Setting mode

[Setting mode window]

- To change to this mode, use button in Live View mode.



<Storage and Add-on setting>



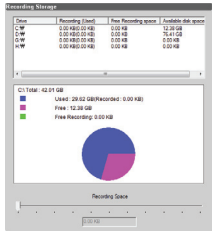
<Recording schedule>

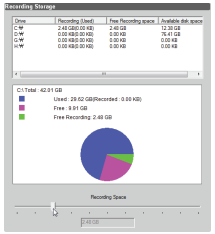
[Storage & additional functions setting]

A. Setting recording storage

- Displays available disk space of the selected drive.
- Storage available : Built-in HDD, Removable storage (USB memory, External HDD), Network drive.

1. Select a hard disk in which recorded video to be saved.
2. Adjust the storage capacity using slide bar.
3. Save present settings by clicking button.

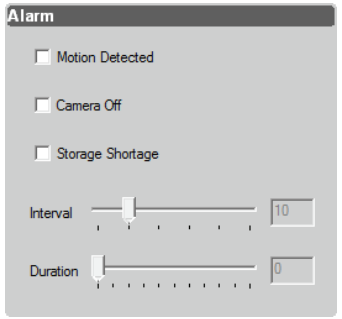




B. Setting alarm

- A warning sound is generated when a pre-selected event occurs.

1. Select desired events and set the time duration of warning sound.
   - Motion Detected : When motion is detected.
   - Camera Off : When connection of the camera is disconnected
   - Storage Shortage : When recording space is insufficient.
   - Interval : Use this to set alarm interval.
   - Duration : Use this to select time duration of warning sound.
2. Save present settings by clicking button.

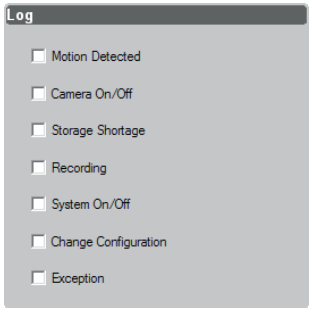


C. Setting log items

- Creates log files in the folder in which Pitta View is installed upon event occurrence.

1. Check relevant events.

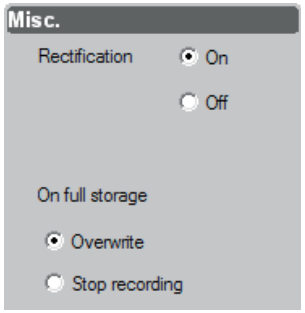
   - Motion Detected : When motion is detected.
   - Camera Off : When camera is turned off.
   - Storage Shortage : When recording space is insufficient.
   - Recording : When recording is started / ended.
   - System On/Off: When Pitta View is turned on & off.
   - Change Configuration : When configuration is changed.
   - Exception : When recording is failed.



2. Save present settings by clicking save button.

D. Misc.

Rectification : Use this function to compensate distorted images. This function can be applied in full screen 1x1 channel and in the largest screens of 1P7 and 1P12 channels.



On full storage

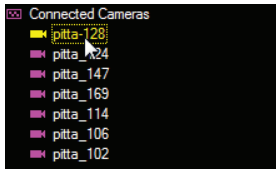
- Overwrite : If the recording storage is less than 1g, very first recorded data will be deleted and keep recording.

- Stop recording : If the recording storage is less than 1g, recording will be stopped.

[Recording scheduler]

A. Setting schedule the recording

1. Select camera



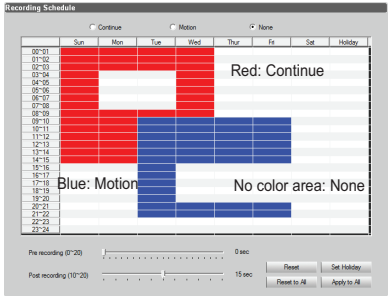
2. Select recording type (among Continue, Motion and None.)

   - Continue : Allows a continuous recording.
   - Motion : Records when motion is detected.
   - None : Does not record.



3. Create a recording schedule block by dragging mouse to the desired time position after selecting continue in recording type. The set area is displayed in red.

   - Set Holiday : Use this to set holidays.
   - Reset : Use this to remove the schedule of a selected camera.
   - Reset to All : Use this to remove the schedules of all cameras.
   - Apply to All : Use this to apply the current assigned schedule to all cameras.



4. Save : Allows to present settings.

5. Close : Allows to convert to Live View mode.

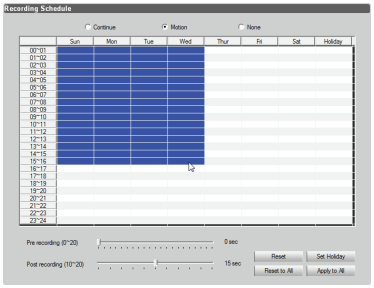
B. Setting motion recording

- Motion recording can be carried out when motion enable settings and motion area settings of the relevant camera in Pitta WebView have been completed (See page 20 for more information). You need to check if M is displayed on the top right of the applicable camera's screen in Live View mode upon detecting motion when the camera's motion settings have been done.

1. Select a camera



2. Create a recording schedule block by dragging mouse to the desired time position after selecting motion in recording type. The set area is displayed in blue.



- Pre recording : Use this to set how many seconds before detecting motion recording begins.
- Post recording : Use this to set how many seconds more recording continues from the end point of detecting motion.

3. Save present settings by clicking  button.

- A blue circle will be displayed in Live View mode if recording is in progress.
- This function can be applied only when Enable Motion Detection function is activated in Events Configuration (See page 20 for more information.) of Pitta WebView. If it is not activated, it will not be recorded.

Playback mode

[Playback mode window]

- To change to this mode, use playback button in Live View mode.

List of Recorded Cameras

Recorded date display



Data map

- Data map displays the data recorded by the selected camera on a specific date by hour, minute and second.

- The cameras in the list of Recorded Cameras are displayed by their names and contain IP address and serial number in the detail information (if there is no data on the date you selected, the icon of relevant camera is displayed in grey).



Camera name



Recording status
Red : Normally recorded
Blue : Motion recorded

Recorded time

- Searching is not possible in the playback mode.

[Recorded data map types]



Normally recorded data map (Red)

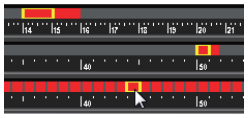


Motion recorded data map (Blue)

[How to set playback]

1. Click the desired camera among cameras in the list of Recorded Cameras and drag and drop it onto the screen.
2. Select a date on which you can search recordings (Red circle: recorded date, Yellow circle: current selected date)
3. Carry out record searching using playback mode button.
4. You can move to the image of a desired time by clicking data mark in data map. Possible to search by hour, minute and second basis.





 Snapshot : You can save still images you selected as bmp or jpeg format.

 Print : Use this to print the current view of the camera you selected.

 : Display or change of the selected camera : Use to display or change the currently selected camera.

 : Allows to move to the first frame of video of selected date.

 : Allows to move backward frame by frame.

 : Playback, pause

 : Allows to move foreward frame by frame

 : Allows to move to the last frame of video of selected date.



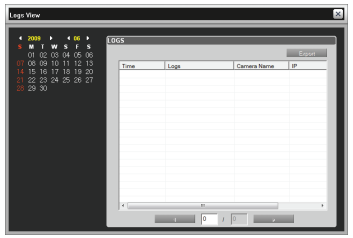
Recording storage: Indicates total data size recorded.

- Maximum playback time is 24 hours. Data recorded next day can be played back by selecting the date in the calendar.

Log view mode

[Log view mode window]

To convert to this mode, use log view convert button. It allows searching for log data of camera and Pitta View by date. You can search log data for up to 3 years.

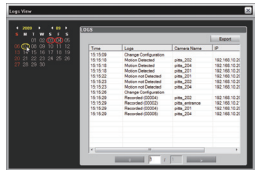


<Log View mode>

[How to see log view]

1. Select a date in the calendar on which log data is recorded.
2. Maximum 1,000 lines of log data are displayed in a page. You can move to the next page using left or right arrow key.
3. Current log list can be backed up as cvs file format (Excel file format) using Export button.
4. If there are data more than 1,000 lines on a specific date, you may move to the desired page using left or right arrow key or by directly entering a page number.





Logo

Version information on Pitta View is displayed when double-clicked on the logo.





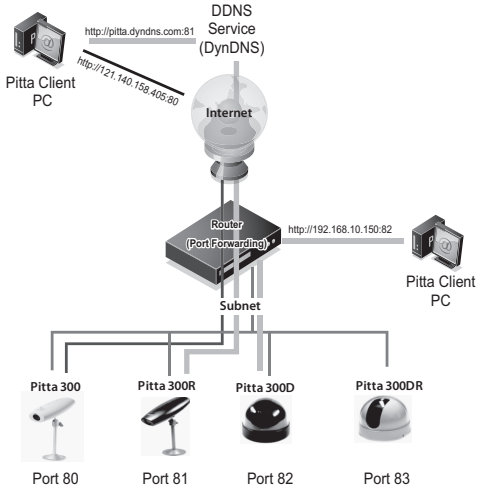
Appendix 1

PITTASOFT

DDNS & Router Port Forwarding

DDNS uses a specific domain name to access the device which has a dynamic IP address. User can access the camera through the domain name, any dynamic IP address changes will be automatically updated by the camera's DDNS client with the DDNS server. To use DDNS service, connect to DynDNS (http://www.dyndns.com) and registered with one of the several free domain names. And then do the DDNS setting for the camera through Pitta WebView's DDNS settings page. (See page 17 for more information)

IP or domain name serviced by DDNS is not accessible when the dynamic IP is the hidden internal IP by the router. In this case, if you use port forwarding provided by the router then you will be able to access the dynamic IP. The router's port forwarding is the functionality to distinguish the internal IP from the router's port. For instance, you can set the access port 80 and 81 using the router IP (121.140.158.405), access from the web to internal IP 192.168.10.100 and 192.168.10.101. Then it can be accessed by http://121.140.158.405:80 and http://121.140.158.405:81. If DDNS activates, it can be accessed by the registered domain name. (See page 16 for more information)



<DDNS & Router port forwarding diagram>

Appendix 2

PITTASOFT

Troubleshooting

If there are problems in operation, please refer to the items below.

- Nothing appears on the screen.
  - Please check the power connection.
  - Please check the network cable connection.
  - Please make sure the LAN cable is cross cable (PC connection) or general LAN cable (Switch Hub, Router connection)
  - If IP utility or Pitta WebView is not able to detect the camera after checking the above items, press the 'Reset' button to initialized it and then try again.
- The video image is not clear.
  - Please check if the lens is clean. Please clean the lens with a clean cloth or brush.
  - Please adjust the contrast feature of the monitor.
  - Please make sure that the screen is not exposed directly to a bright light. Please move the camera if necessary.
- The screen is dark.
  - Please adjust the contrast feature of the monitor.
  - Please adjust the Color Setting of Sensor Configuration in Pitta WebView
- The Motion Detection function is not working.
  - Please check the 'Enable Motion Detection' mode is turned on in Pitta WebView.
  - Please check the setting of Motion Parameter Setting in Pitta WebView.
- Colors are not quite right.
  - Please check the Color Setting of Sensor Configuration in Pitta WebView.
- The screen is flickering.
  - Please check if the camera is facing directly into fluorescent light.
  - Please check the Sensor Frequency in Pitta WebView.
- Video is stopped
  - Please check whether network cable is correctly connected
  - In case user uses hub or IP router, check whether these network equipments are working properly.
- No image from Pitta WebView
  - Please click 'refresh (shortcut; F5) ' button at browser to recall the page
  - Please check whether power of camera and network cable is properly connected.
  - Please check whether computer is connected to network.
  - If you use hub or IP router, check whether such equipments are properly operating.
- Image transfer to FTP or by E-mail cannot be received.
  - Please check the Event Upload Configuration is set correctly in Pitta WebView.

If the problem still persists, please contact the agent you purchased this product from.

Appendix 3

Pitta 300 Series Specification

Camera	Pitta 300/300R	Pitta 300D/300DR
Camera type	Fixed type	Dome type
Image sensor	1/4” CMOS VGA 1/3” CMOS VGA(WDR)	1/4” CMOS VGA 1/3” CMOS VGA(WDR)
No. of effective pixels	320,000 pixels	
Lens type	Board-mount lens, fixed focus	
Focal length	F=4.4mm, 800mm~infinity	
Field of view	67°	
F-number	F2.0	
Interface		
Ethernet	10/100 Base-TX(RJ-45)	
Protocol	TCP/IP, HTTP, DHCP, SMTP, FTP, DNS, DDNS	
Button	Reset	
Cable type	UTP CAT 5	
LEDs	Red-Starting, Orange-Booting, Green-Operating, Red flicker - Software upgrade	
Power supply	External power adapter: DC5V/1.0A	
Power consumption	Max 3W	
Environment		
Certification	FCC, CE, RoHS	
Operating temp.	32°F to 122°F (0°C to 50°C)	
Storage temp.	-40°F to 140°F (-40°C to 60°C)	
Unit weight	96g	139g

Appendix 4

Pitta WebView Specification

Live View	ActiveX based Live View with snapshot and full screen	
Setup	Basic	Easy configuration for beginners
	Advanced	Advanced configuration options for high-end users
Video resolutions	640X480 (VGA) 352X288 (CIF) 320X240 (QVGA) 176X144 (QCIF)	
Video configuration	Frame rate, resolution, bit-rate, I-frame interval configuration settings Maximum 3 Mbps bit-rate supported	
JPEG configuration	Configurable compression ratio	
User list	Maximum 7 users (1 admin with full access and 6 viewers access password entry)	
Event configuration	Motion detection : 4 included/excluded windows supported with Object size, MoT, Background options Weekly scheduled motion detection event with selectable upload interval	
Email/FTP configuration	3 email & 3 FTP configuration for event notification	
Overlay	Event captured JPEG image with text, date and time	
Date & time	Camera date and time selection with automatic adjustment	
System settings	Remote camera reboot, Restore factory default setting, Firmware upgrade	

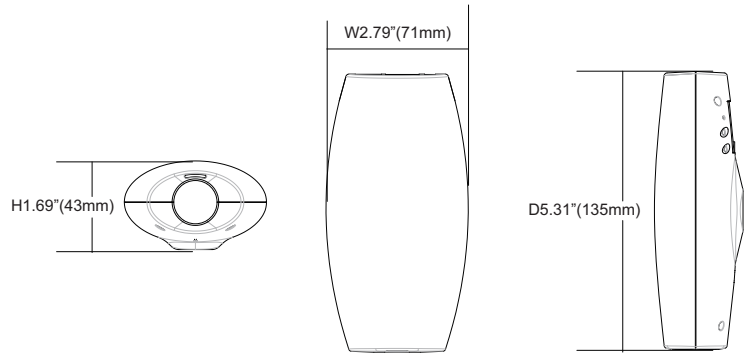
Appendix 5

Pitta View Specification

Display resolution	1024x768	
Video codec	H.264 decoder	
Transport protocol	Pittasoft IP Network Camera protocol (TCP/IP)	
Security	Advanced Encryption Standard (AES), 128-bit (Rijndael)	
Live View	Up to 16ch	
Display layout	1, 4, 8, 9, 13, 16, rotation, full screen	
Recording	Recording scheduler Storage settings Recording mode (continue, motion, none) MP4 file format	
Playback	Up to 16ch	
Digital zoom	Up to 2.0X	
Camera searching	Automatically IP Network Camera searching	
Minimum requirements	CPU	Intel Pentium 4 2.0Ghz or higher
	RAM	Minimum 1GB
	Network	Ethernet
	Graphics card	Minimum 1024x768, 24bit colors, 128MB RAM DirectX 9.0 or newer support, Direct Draw Overlay Support
	Hard disk type	E-IDE, SATA, SCSI, SAS
	Hard disk space	Minimum 80Gbyte free(depends on number of camera and recording settings)
	OS	Windows XP SP2, Windows Vista

Appendix 6

Pitta 300 and Pitta 300R Dimension



Pitta 300D and Pitta 300DR Dimension

